

## PERSONAL INFORMATION

## Alessandro Grandi



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Sex Male | Date of birth 23/05/1975 | Nationality Italian

## WORK EXPERIENCE

 September 2007 - present **Technical Collaborator for Research Institutes**

National Institute of Geophysics and Volcanology, Via Donato Creti 12 – 40100 Bologna, Italy

- Operational Manager of the operational forecasting production chain for the Mediterranean Sea. Validation of the oceanographic forecasting system, data analysis and production of climatologies.

**Business or sector** Research

 September 2006 - September 2007 **Grant Recipient**

National Institute of Geophysics and Volcanology, Via Donato Creti 12 – 40100 Bologna, Italy

- Validation of the oceanographic forecasting system for the Mediterranean Sea and oceanographic data analysis.

**Business or sector** Research

 April 2006 – August 2006 **Trainee**

National Institute of Geophysics and Volcanology, Via Donato Creti 12 – 40100 Bologna, Italy

- Validation of the oceanographic forecasting system for the Mediterranean Sea and oceanographic data analysis.

**Business or sector** Research

 December 2005 – March 2006 **Research Assistant**

University of Bologna, Department of Chemistry, Via Selmi 2 – 40100, Bologna, Italy

- Synthesis of organic compounds

**Business or sector** Research

 June 2003 – February 2005 **Research Assistant**

University of Bologna, Department of Chemistry, Via Selmi 2 – 40100, Bologna, Italy

- Synthesis of organic compounds

**Business or sector** Research

## EDUCATION AND TRAINING

 1996 - 2002 **Master's Degree in Chemistry**

University of Bologna, Department of Chemistry, Via Selmi 2 – 40100, Bologna, Italy

- Master's Thesis: A. Grandi, Porzi G., Sandri S. "Sintesi stereocontrollata di derivati di acidi diamminodicarbossilici di interesse biologico" (100/110)
- Specialization in Organic Chemistry
- Principal subjects covered: Organic Chemistry, Physical Chemistry and Analytical Chemistry

 1995 - 1996 **Chemical Engineering**

University of Bologna, Bologna, Italy

- Attended the first two years of the Chemical Engineering program, then decided to switch to the Organic Chemistry.

 1990 - 1994 **High School Diploma**

Liceo Scientifico "Enrico Fermi", Via Mazzini, 172/2 – 40139 Bologna, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

| Other language(s) | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|-------------------|---------------|---------|--------------------|-------------------|---------|
|                   | Listening     | Reading | Spoken interaction | Spoken production |         |
| English           | C1            | C1      | B2                 | B2                | B2      |
| French            | B2            | B2      | B1                 | B1                | B1      |

**Communication skills** ▪ good communication skills gained through my experience as member of the Service Desk for the Mediterranean Forecasting System in the framework of the European projects MyOcean, MyOcean 2, MyOcean Follow On and Copernicus Marine Environment Monitoring Service.

**Job-related skills** ▪ good command of oceanographic and atmospheric data analysis (currently responsible for the downloading and for the quality control of the NRT insitu and atmospheric data for the Mediterranean Forecasting System)  
 ▪ good command of the management of an operational chain for a marine forecasting system (currently operational manager of the operational group of the Mediterranean Forecasting System)

**Computer skills** ▪ good command of the O.S. Unix, Linux, Windows and Macintosh  
 ▪ good command of Fortran, Python, NCL, MySQL Matlab, Grads and ODV (Implementation of programs for the quality control, storage and visualization of oceanographic and atmospheric data)  
 ▪ good command of Unix shell scripting (Implementation of scripts for the management of the operational chain of the Mediterranean Forecasting System)  
 ▪ good command of Microsoft Office™ tools

**Other skills** ▪ Training Courses:

- 8-10 April 2015 CINECA, Bologna (I)  
 "Tools and Techniques for massive data analysis"
- 7-9 June 2011 "National Institute of Geophysics and Volcanology" (INGV), Bologna (I)  
 "Python for computational science"
- 3-6 November 2010 "Université de Liege", Calvi (F)  
 "Fifth DIVA User Workshop"
- 23-26 October 2009 "Université de Liege", Calvi (F)  
 "Fourth DIVA User Workshop"
- 8 June 2009 "National Institute of Oceanography and Experimental Geophysics" (OGS), Trieste (I)  
 "Argo Information and Training Day"
- February 2009 "National Institute of Geophysics and Volcanology" (INGV), Bologna (I)  
 "Introduction to ArcGIS 9.3"
- 16-20 June 2008 "International Oceanographic Data and Information Exchange" (IODE), Oostende (B)  
 "Third SeaDataNet Training Course"
- 4-6 November 2007 "Université de Liege", Calvi (F),  
 "Second DIVA User Workshop"

▪ Oceanographic Cruise:  
 - 20-30 April 2012 "MEMA12" R/V URANIA  
 Multidisciplinary sampling in the Otranto Channel (Italy)

▪ good command of NMR, UV and Mass spectroscopy, HPLC and Chromatography (skills acquired during the Master's Thesis)

Driving licence B

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 ADDITIONAL INFORMATION

## Publications peer reviewed

- R.Galeazzi, M.Garavelli, **A.Grandi**, M.Monari, G.Porzi, S.Sandri; "Unusual peptides containing 2,6-diaminopimelic acid framework. Stereocontrolled synthesis, computational modelling, X-ray analysis. Part 2.", *Tetrahedron Asymmetry* 14, 2639-2649 (2003)
- A.Arcelli, D.Balducci, **A.Grandi**, G.Porzi, M.Sandri, S.Sandri; "Chiral 1,4-Morpholine-2,5-dione derivatives: synthesis and evaluation as glucosidase inhibitors", *Monatshefte für Chemie* 135, 951-958 (2004).
- D.Balducci, A.Grandi, G.Porzi, P.Sabatino, S.Sandri; "Stereoselective synthesis of pseudotriptides incorporating uncommon bis- $\alpha$ -aminoacid derivatives and X-ray analysis. Part 3.", *Tetrahedron Asymmetry* 15, 3929-3937 (2004).
- A.Arcelli, D.Balducci, **A.Grandi**, G.Porzi, M.Sandri, S.Sandri; "Chiral 1,4-morpholin-2,5-dione derivatives as  $\alpha$ -glucosidase inhibitors: Part 2", *Tetrahedron Asymmetry* 16, 1495-1501, (2005).
- D.Balducci, **A.Grandi**, G.Porzi, S.Sandri; "Stereocontrolled synthesis of unnatural cyclic dipeptides containing an L-valine unit", *Tetrahedron Asymmetry* 16, 1453-1462, (2005).
- D. Balducci, **A. Grandi**, G. Porzi, S. Sandri; "Stereoselective synthesis of a new chiral synthon : a cyclic pseudodipeptide containing an aspartic acid derivative and L-valine", *Tetrahedron Asymmetry* 1521, 17 (2006)
- Romaniello V., P.Oddo, M.Tonani, L.Torrisi, **A.Grandi** and N.Pinardi, 2015. "Impact of sea surface temperature on COSMO forecasts of a Medicanne over the western Mediterranean Sea", *Journal of Earth Science and Engineering* 5, 338-348, (2015).

## Proceeding

- Tonani M., N.Pinardi, A.Guarnieri, M.Adani, G.Coppini, S.Dobricic, M.Drudi, C.Fratianni, **A.Grandi**, S.Lyubartsev, and P.Oddo, 2009. Additional Contribution "The GNOO-INGV Mediterranean ocean Forecasting System and Adriatic sea Forecasting System". In *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Annex)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison, D.E. & Stammer, D., Eds., ESA Publication WPP-306.
- Tonani M., N.Pinardi, M.Adani, A.Bonazzi, G.Coppini, M.De Dominicis, S.Dobricic, M.Drudi, N.Fabbroni, C.Fratianni, **A.Grandi**, S.Lyubartsev, P.Oddo, D.Pettenuzzo, J.Pistoia and I.Pujol, 2008. *The Mediterranean ocean Forecasting System, Coastal to Global Operational Oceanography: Achievements and Challenges. Proceedings of the Fifth International Conference on EuroGOOS 20-22 May 2008*, Exeter, UK, edited by H. Dahlin, EuroGOOS Office, Norrkoping, Sweden, M. J. Bell, Met Office, UK, N. C. Fleming, UK, S. E. Pietersson, EuroGOOS Office, Norrkoping, Sweden. First Published 2010, EuroGOOS Publication no.28, ISBN 978-91-974828-6-8.
- Tonani M., A.Teruzzi, G.Korres, N.Pinardi, A.Crise, M.Adani, P.Oddo, S.Dobricic, C.Fratianni, M.Drudi, S.Salon, **A.Grandi**, G.Girardi, V.Lyubartsev and S.Marino, 2011 "The Mediterranean Monitoring and Forecasting Centre, a component of the MyOcean system", *Sustainable Operational Oceanography. Proceedings of the Sixth International Conference on EuroGOOS 4-6 October 2011*, Sopot, P, edited by H. Dahlin, EuroGOOS Office, Norrkoping, Sweden, N. C. Fleming, National Oceanography Center, UK, S. E. Pietersson, EuroGOOS Office, Norrkoping, Sweden. First Published 2014, EuroGOOS Publication no.30, ISBN 978-91-974828-9-9.
- Adani M., G.Coppini, S.Dobricic, M.Drudi, C.Fratianni, **A.Grandi**, V.Lyubartsev, P.Oddo, S.Simoncelli, N.Pinardi and M.Tonani, 2011 "Assessment and comparison of different Mediterranean Sea reanalysis datasets: 1985-2007", *Sustainable Operational Oceanography. Proceedings of the Sixth International Conference on EuroGOOS 4-6 October 2011*, Sopot, P, edited by H. Dahlin, EuroGOOS Office, Norrkoping, Sweden, N. C. Fleming, National Oceanography Center, UK, S. E. Pietersson, EuroGOOS Office, Norrkoping, Sweden. First Published 2014, EuroGOOS Publication no.30, ISBN 978-91-974828-9-9.

## Publications not peer reviewed

- Fratianni C., M.Tonani, N.Pinardi, M.Adani, G.Coppini, S.Dobricic, M.Drudi, **A.Grandi**, P.Oddo, D.Pettenuzzo and V.Lyubartsev, 2012. "The Mediterranean Sea Forecasting System: Ten years on". *Operational Oceanography in Italy - toward a sustainable management of the sea*, edited by ARPA Emilia Romagna. First Published 2012, I quaderni di Arpa Arpa Agenzia regionale prevenzione e ambiente dell'Emilia Romagna. ISBN 978-88-87854-29-9.

- Presentations**
- 2008 EuroGOOS, Exeter (UK)  
Tonani M., N.Pinardi, M.Adani, A. Bonazzi, G.Coppini, M.De Dominicis, S.Dobricic, N.Fabbroni, C.Fratianni, **A.Grandi**, V.Lyubartsev, P.Oddo, D.Pettenuzzo, J.Pistoia and I.Pujol  
"The Mediterranean ocean Forecasting System, MFS"
  - 2009 OceanObs09, Venezia (I)  
Tonani M., N.Pinardi, A.Guarnieri, M.Adani, G.Coppini, S.Dobricic, M.Drudi, C.Fratianni, **A.Grandi**, V.Lyubartsev, and P.Oddo.  
"The Gnoo-INGV Mediterranean and Adriatic Forecasting System"
  - 2009 EGU General Assembly Wien (A)  
Tonani M., N. Pinardi, **A. Grandi**, and M. Adani  
"Seadatanet Climatologies for the Mediterranean Sea"  
Presentazione Orale
  - 2012 Ocean Sciences, Salt Lake City (USA)  
Tonani M., C.Fratianni, A.Guarnieri, P.Oddo, M.Adani, S.Dobricic, M.Drudi, **A.Grandi**, V.Lyubartsev and N.Pinardi  
"The Mediterranean and Adriatic marine forecasting system"
  - 2014 EGU General Assembly Wien (A)  
Tonani M., P.Oddo, G.Korres, E.Clementi, S.Dobricic, M. Drudi, J. Pistoia, A.Guarnieri, V.Romaniello, G.Girardi, **A.Grandi**, and N. Pinardi  
"The Mediterranean Forecasting System: recent developments"
  - 2014 Simai Taormina (I)  
N.Pinardi, M.Tonani, G.Pistoia, M.Mariani and **A.Grandi**  
"Variational Ocean Data Assimilation for the Mediterranean Forecasting System"
  - 2015 EGU Vienna (A)  
Clementi E., P.Oddo, G.Korres, N.Pinardi, M.Drudi, M.Tonani, **A.Grandi**, and M.Adani  
"Coupled wave-ocean modeling system experiments in the Mediterranean Sea"
  - 2016 EGU Vienna (A)  
Coppini G., M.Drudi, G.Korres, C.Fratianni, S.Salon, G.Cossarini, E.Clementi, A.Zacharioudaki, **A.Grandi**, D.Delrosso, J.Pistoia, C.Solidoro, N.Pinardi, R.Lecci, P.Agostini, S.Creti, G.Turrisi, F.Palermo, A.Konstantinidou, A.Storto, S.Simoncelli, P.Di Pietro, S.Masina, S.Ciliberti, M.Ravdas, M.Mancini, G.Aloisio, S.Fiore, and M.Buonocore  
"Mediterranean monitoring and forecasting operational system for Copernicus Marine Service"
- Posters**
- 2004 V Congreso internacional de química e ingeniería química, La Havana (Cuba)  
"Chiral 1,4-morpholine-2,5-dione derivatives as  $\alpha$ -glucosidase inhibitors"
  - 2008 IMDIS, Athens (Gr)  
Tonani M., N.Pinardi, **A.Grandi**, C.Fratianni  
"A new gridded climatological dataset for the Mediterranean Sea"
  - 2010 IMDIS, Paris (F)  
Troupin C., M.Ouberdous, A.Barth, M.Bassompierre, C.Coatanoan, **A. Grandi**, S.L.Johansen, O.Ostensen, H.Sagen, S.Scory, M.Tonani, M. Toussaint, C.Tronconi and J.M. Beckers.  
"SeaDataNet regional climatologies: an overview"
  - 2011 The Future of the Operational Oceanography, Hamburg (D)  
Pinardi N., M.Tonani, G.Coppini, P.Oddo, A.Guarnieri, C.Fratianni, M. Drudi, **A.Grandi**, V.Lyubartsev, M.Adani, S.Dobricic, G.Girardi, S. Simoncelli and M.De Dominicis.  
"The activities of the Italian National Group for Operational Oceanography (GNOO) at INGV-BO"
  - 2012 MyOcean Science Day, Hamburg (D)  
Tonani M., J.Nilsson, V.Lyubartsev, **A.Grandi**, A.Aydogdu, J.Azzopardi, G.Bolzon, A.Bruschi, A.Drago, T.Garau, J.Gatti, I.Gertman, R.Goldman, D.Hayes, G.Korres, P.Lorente, V.Malacic, A.Mantziafou, G.Nardone, A.Olita, E.Ozsoy, I.Pairaud, S.Pensieri, L.Perivoliotis, B.Petelin, M.Ravaioli, L.Renault, S.Sofianos, M.G.Sotillo, A.Teruzzi, and G.Zodiatis  
"Operational evaluation of the Mediterranean Monitoring and Forecasting Centre products: implementation and results"
  - 2016 Convegno della Struttura Ambiente INGV Roma (I)  
**Grandi A.**, E.Clementi, D.Delrosso, P.Di Pietro, M. Drudi, C.Fratianni, G. Girardi, A.Guarnieri, S.Marino, N.Pinardi, J.Pistoia, S.Simoncelli, M.Tonani  
"Input data for the Mediterranean Sea in the Copernicus Marine Service"
  - 2016 EGU Vienna (A)  
Clementi E., D.Delrosso, J.Pistoia, M.Drudi, C.Fratianni, **A.Grandi**, N.Pinardi, P.Oddo, and M.Tonani  
"Mediterranea Forecasting System: a focus on wave-current coupling"

## Technical Report

- Tonani M., **A.Grandi**, C.Fratianni e M.Drudi 2010. European Marine Core Service Mediterranean Monitoring and Forecasting Centre (MFC): manuale d'uso del Mediterranean Forecasting System (Med-MFC-currents). Rapporto Tecnico INGV, n.163.
- Trani M., M.Tonani, **A.Grandi**, J.Pistoia, P.Oddo, G.Girardi e M.Drudi 2014. Quality control system of the Mediterranean Forecasting System Products. Rapporto Tecnico INGV, n.274.
- Delrosso D., E.Clementi, **A.Grandi**, M.Tonani, P.Oddo, G.Girardi, e N.Pinardi 2016. Towards the Mediterranean Forecasting System MyOcean V5: numerical experiments results and validation. Rapporto Tecnico INGV, n.345.

## Projects

Participation and collaboration in the following research projects:

- MERSEA project
- EU-project SeaDataNet (A Pan-European Infrastructure for Ocean and Marine Data Management-Integrated Infrastructure Initiative (I3) Project contract 026212)
- EU-project SeaDataNetII (INFRA-2011-1.1.14. Multidisciplinary Marine Data Centers. Pan-European infrastructure for ocean and marine data management)
- Progetto bandiera RITMARE, la ricerca italiana per il mare
- EU-project MyOcean (Development of Upgraded Capabilities for Existing GMES Fast-Track Services and Related Operational Services; Grant agreement: 218812-1-FP7-SPACE 2007-1)
- EU-project MyOcean2 (Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service; Grant Agreement:283367 FP7-SPACE-2011-1)
- EU-project MyOcean Follow On (H2020 - AdHoc - 2014-20)
- Copernicus Marine Environment Monitoring Service